

# 2nd Annual Science Summer Institute "Connecting Classrooms to Careers"

Aug. 5-7, 2019 | MSU, Bozeman, MT

## - SCHEDULE -

### Monday, August 5, 2019 6:30 - 8:30 pm

Museum of the Rockies "MOR Science" Social Kickoff (pre-registration / check-in available)

### Tuesday, August 6, 2019 8:00 - 5:00 pm

8:00 - 9:00 am Check-in/Registration, Coffee, Breakfast Snacks, Visit with Exhibitors

9:00 - 9:15 am Conference Kickoff

9:15 - 10:30 am Keynote Presentation (Ballroom A)

"Hope is a Thing With Little Clear Wings"  
Clay Bolt, Natural History and Conservation Photographer  
**Ballroom A**

10:30 - 11:00 am Break, Coffee, Visit with Exhibitors

11:00 - 12:15 pm Breakout Session I

Watersheds: Begin at the Beginning with Modeling (K-8), Judy Boyle <b>Ballroom C</b>	Think Outside: Teaching STEAM with Biomimicry Design Challenges (6-12), Gretchen Hooker <b>Room 233</b>	STEM for All: Gender-Equitable & Culturally Relevant Strategies for Engaging Youth (3-12), Suzi Taylor <b>Room 235</b>	"Our Home, Our World" New Earth & Space Science Curriculum, Museum of the Rockies (4-8), Angela Weikert <b>Ballroom D</b>	Teaching Science Outdoors: What Does it Take? (K-12), Rose Vallor <b>Outdoor Session [meet at registration table]</b>
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12:15 - 1:30 pm LUNCH (lunch voucher provided for Rendezvous Dining Pavilion)

1:30 - 3:00 pm Breakout Session II

Collaborate, Ignite, Learn: Inspiring Authentic Engagement in the Real World (3-12), Kathleen Dent <b>Ballroom C</b>	What Floats in a Moat? Integrated STEM Learning in a One Room Schoolhouse (K-5), Rebekah Hammack <b>Ballroom D</b>	Uses of the Bison Then & Now (K-12), Shane Doyle <b>Room 233</b>	Using Forests for Place-Based Education (K-12), Liz Burke <b>Room 235</b>	Kites and Citizen Science with NASA (K-12), Suzi Taylor <b>Alumni Lounge</b>
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3:00 - 3:30 pm Break and Visit with Exhibitors (sponsored afternoon snacks)

3:30 - 5:00 pm Breakout Session III

A New Approach to IEFA and NGSS Integration (K-12), Jennifer Stadum <b>Ballroom C</b>	How Do I Fit It All In? Integrate It. (3-5), Tracy Babcock <b>Room 233</b>	What Do Careers Have to Do with My Kinders? (PreK-3 ), Kristi Gaines <b>Ballroom D</b>	Argumentation Driven Inquiry in Your Classroom (6-8), Jessica Henze <b>Room 235</b>
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**Wednesday, August 7, 2019 8:00 - 5:00 pm****8:00 - 9:00 am** Coffee, Breakfast Snacks, and Visit with Exhibitors**9:00 - 10:30 am** Breakout Session IV

Macro Photography 101: How Macro Photography Can Change Your Perception of the World Around You, Clay Bolt <b>Ballroom C</b>	The Grizzly Truth: Bare Data on Yellowstone's Grizzly Bear Population (3-12), Linda Rost <b>Ballroom D</b>	The Gift of the Bitterroot Suite (K-5), Kim Quigley <b>Room 233</b>	Teaching Science and Engineering Concepts Using a MakerSpace (6-12), Natalia Kolnik <b>at Montana Science Center [offsite]</b>	Hands-on Health Science Career Pathways (6-12, CTE and Community College), Kelly Canino, Anatomy in Clay <b>Room 235</b>
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**10:30 - 11:00 am** Break and Visit with Exhibitors**11:00 - 12:15 pm** Breakout Session V

Cultivate Classroom Excitement for STEM with Agriculture/4-H (preK-12), Renee Gebault King <b>Ballroom C</b>	Literacy and Science (3-8), Chris Pavlovich <b>Ballroom D</b>	Collaboration for Better Environmental Education (PreK-12), Courtney Long <b>Room 233</b>	Montana Science Center session (continued)	Engineering, the Design Process, and Digital Citizenry (K-8), Francis Ogata, Amplify <b>Room 235</b>
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**12:15 - 1:30 pm** LUNCH (vouchers provided for Rendezvous Dining Pavilion)**1:30 - 3:00 pm** Breakout Session VI

Connecting to STEM Fields through Dual Enrollment and Montana Career Pathways (6-12), Diane Dorgan & Renee Erlandsen <b>Ballroom C</b>	Community Engagement Through Family Engineering Night (PreK-5), Rebekah Hammack <b>Ballroom D</b>	The Direction of Montana Science Assessment Forum (K-12), Ashley McGrath & Michelle McCarthy <b>Ballroom A</b>	Teaching Girls to Code and Change the World (3-12), Valerie Tomici, Girls Who Code <b>Room 233</b>
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**3:00 - 3:30 pm** Break and Visit with Exhibitors (sponsored afternoon snacks)**3:30 - 5:00 pm** STEM Summit Panel - Facilitator, Suzi Taylor, MSU - SMRC **Ballroom A**

Kadia Schuneman FLIR Systems, Inc. and MPIA (Montana Photonics Industry Alliance)	Loren Acton Retired NASA Astronaut and MSU Emeritus Research Professor of Physics	Michelle Flenniken Co-Director of MSU's Pollinator Health Center, Plant Sciences and Plant Pathology	Clay Bolt Natural History & Conservation Photographer	Akua Oppong-Anane, Assistant Professor, Freshman Engineering Program, Montana Technological University
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**Thursday, August 8, 2019 8:30 - 11:30 am (check-in starts at 8:00 am) Ballroom A**

You are invited to attend the FREE STEM Summit "Unconference", sponsored by the Montana Afterschool Alliance (MTAA) and MSU Science and Math Resource Center (SMRC). This unconference-style event will gather stakeholders from K-12, before & afterschool, higher education, and the business community to explore STEM delivery strategies that are working statewide, and map next steps to help spark curiosity and build skills for learners around Montana. Register on MSU's Science Math Resource Center website, [www.montana.edu/smr/STEM\\_summit.html](http://www.montana.edu/smr/STEM_summit.html).